

On page 100, line 14, after "transplanted into the", replace "striatal" with -- lesioned hippocampal --.

In the Claims:

sub
D1

26. (Amended) A method of transplanting neural stem cell progeny to a host comprising:

(a) obtaining a population of cells derived from mammalian neural tissue [from a mammal, said neural tissue] containing at least one multipotent neural stem cell capable of producing progeny that are capable of differentiating into neurons, astrocytes, and oligodendrocytes [glia];

(b) [dissociating said neural tissue to obtain a cell suspension comprising said multipotent neural stem cell; (c) culturing said cell suspension in] preparing a culture medium containing at least one [proliferation-inducing] growth factor capable of inducing multipotent neural stem cell proliferation

(C) preparing a cell culture by combining the cells obtained in (a) with the culture medium prepared in (b) to induce proliferation of [proliferate] said multipotent neural stem cell [and] to produce neural stem cell progeny which includes daughter multipotent neural stem cells; and

(d) transplanting said multipotent neural stem cell progeny to said host.

Please cancel claims 1-25 and 28-31 as directed to a non-elected invention.

Please add the following claims:

sub
D2

-- 32. The method of claim 26 wherein said growth factor in the culture medium prepared in (b) is selected from the group consisting of epidermal

growth factor, amphiregulin, acidic fibroblast growth factor, basic fibroblast growth factor, transforming growth factor alpha, and combinations thereof. --

-- 33. The method of claim 32 wherein said growth factor in the culture medium prepared in (b) is epidermal growth factor. --

~~Sub D3~~ -- 34. The method of claim 32 wherein said growth factor in the culture medium prepared in (b) is a fibroblast growth factor. --

~~6~~ -- 35. The method of claim ~~34~~⁵ wherein said culture medium additionally contains epidermal growth factor. --

~~Sub E3~~ -- 36. The method of claim 26 wherein the cells obtained in (a) have not been treated with serum *in vitro* and the culture medium prepared in (b) is substantially serum-free. --

~~Sub D4~~ -- 37. The method of claim 26 wherein prior to (d) at least one subsequent cell culture is prepared by combining said neural stem cell progeny with fresh culture medium containing at least one growth factor capable of inducing multipotent neural stem cell proliferation to proliferate said daughter multipotent neural stem cells to produce more progeny which include more daughter multipotent neural stem cells. --

-- 38. The method of claim 37 wherein said at least one subsequent cell culture contains a percentage of multipotent neural stem cells that is at least ten fold higher than that of said population of mammalian neural cells obtained in (a). --

~~Sub E4~~ -- 39. The method of claim 26 wherein prior to (d), said multipotent neural stem cell progeny are induced to differentiate into differentiated neural cells. --

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E4
-- 40. The method of claim 26 wherein said differentiated neural cells are selected from the group consisting of oligodendrocytes, astrocytes, neurons, and combinations thereof. --

¹¹/₄₁
-- ¹/₄₁. The method of claim 26 wherein said neural stem cell progeny are transplanted to said host's central nervous system. --

¹²/₄₂
-- ¹¹/₄₁. The method of claim 41 wherein said neural stem cell progeny are transplanted to said host's spinal cord. --

¹³/₄₃
-- ¹¹/₄₁. The method of claim 41 wherein said neural stem cell progeny are transplanted to said host's striatum. --

C4
¹⁴/₄₄
-- ¹¹/₄₁. The method of claim 41 wherein said neural stem cell progeny are transplanted to said host's hippocampus. --

¹⁵/₄₅
-- ¹¹/₄₁. The method of claim 41 wherein said neural stem cell progeny are transplanted into said host's frontal cortex. --

¹⁶/₄₆
-- ¹¹/₄₁. The method of claim 41 wherein said neural stem cell progeny are transplanted into said host's parietal cortex. --

¹⁷/₄₇
-- ¹¹/₄₁. The method of claim 41 wherein said neural stem cell progeny are transplanted to a lesioned region of said host's central nervous system. --

¹⁸/₄₈
-- ¹/₂₆. The method of claim 26 wherein said cells obtained in (a) are obtained from said host's neural tissue. --

¹⁹/₄₉
-- ¹/₂₆. The method of claim 26 wherein said cells obtained in (a) are derived from juvenile or adult mammalian neural tissue. --